STEREO AMPLIFIER

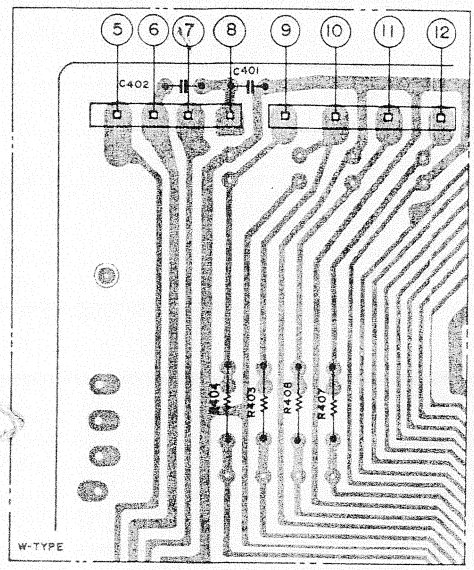
NÁ-360

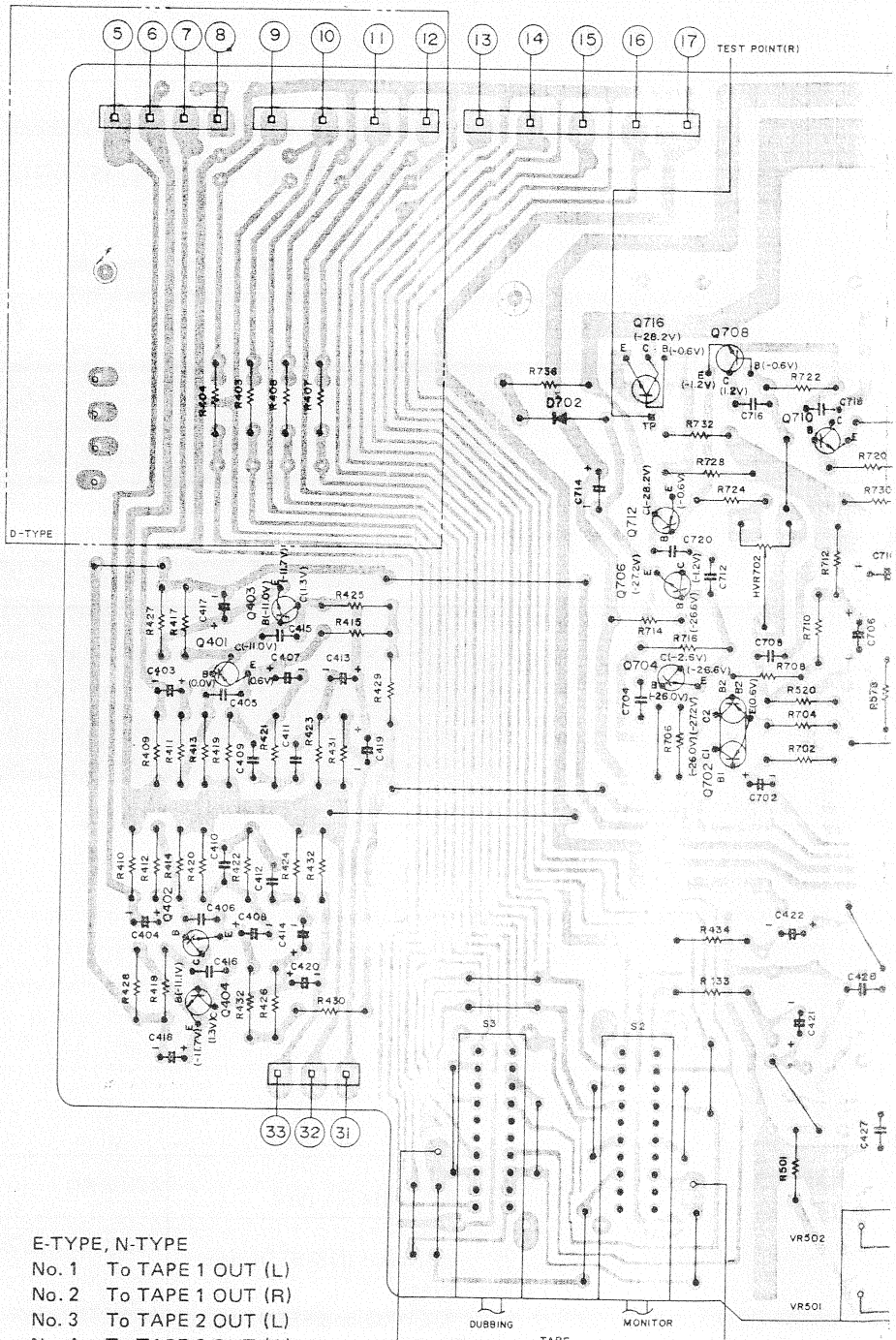
SERVICE MANUAL

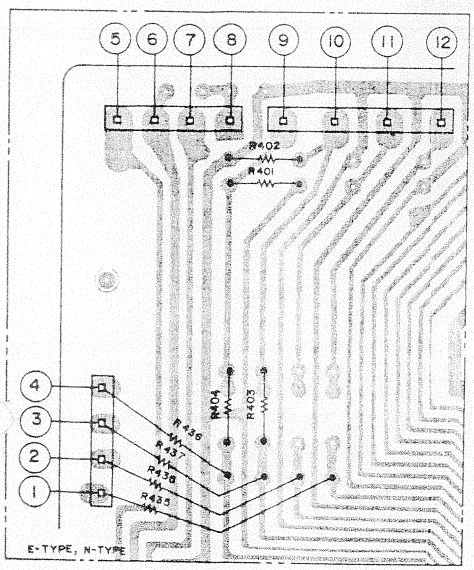
W-TYPE UL and CSA type	120V AC
E-TYPE universal (NK-STD) type	100/120/220/240V AC
N-TYPE DEMKO and SEMKO type	220/240V AC
D-TYPE DIN type	220V AC

NIKKO

CIRCUIT BOARD







WIRING GUIDE

W-TYPE

No. 1
No. 2
No. 3
No. 4
No. 5 To PHONO (L)
No. 6 To PHONO GROUND
No. 7 To PHONO (R)
No. 8 To GND TERMINAL
No. 9 To TAPE 1 OUT (R)
No. 10 To TAPE 1 OUT (L)
No. 11 To TAPE 2 OUT (R)
No. 12 To TAPE 2 OUT (L)
No. 13 To TAPE 1 IN (R)
No. 14 To TAPE 2 IN (R)
No. 15 To TAPE 1 IN (L)
No. 16 To TAPE 2 IN (L)
No. 17 To TAPE 1 GROUND

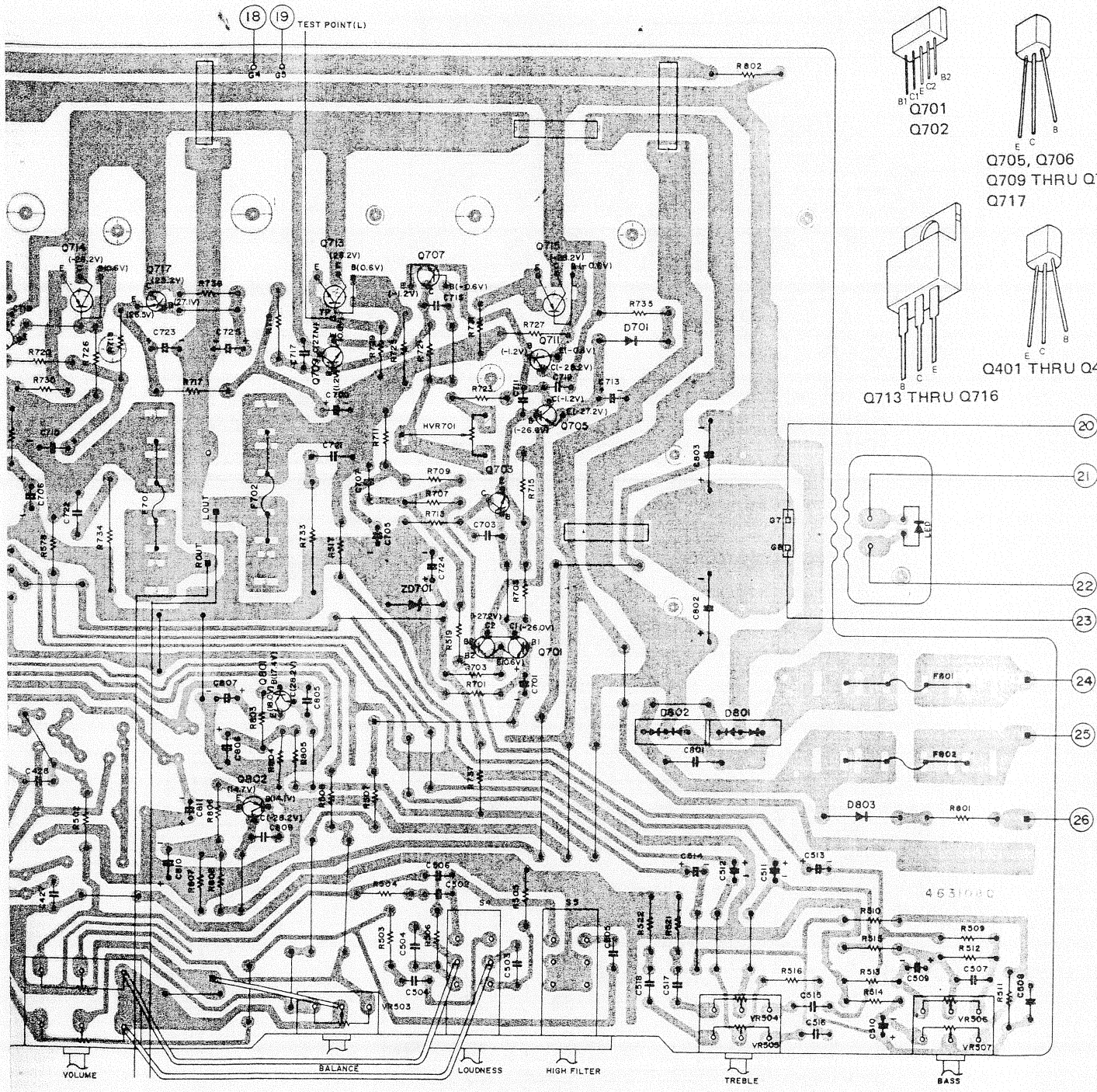
E-TYPE, N-TYPE

No. 1 To TAPE 1 OUT (L)
No. 2 To TAPE 1 OUT (R)
No. 3 To TAPE 2 OUT (L)
No. 4 To TAPE 2 OUT (R)
No. 5 To PHONO (L)
No. 6 To PHONO GROUND
No. 7 To PHONO (R)
No. 8 To GND TERMINAL
No. 9 To DIN JACK (4)
No. 10 To DIN JACK (3)
No. 11
No. 12
No. 13 To TAPE 1 IN (R)
To DIN JACK (5)
No. 14 To TAPE 2 IN (R)
No. 15 To TAPE 1 IN (L)
To DIN JACK (3)
No. 16 To TAPE 2 IN (L)
No. 17 To TAPE 1 GROUND
To DIN JACK (2)

D-TYPE

No. 1
No. 2
No. 3
No. 4
No. 5 To PHONO (3)
No. 6 To PHONO (2)
No. 7 To PHONO (1)
No. 8 To GND TERMINAL
No. 9 To TAPE 1 (4)
No. 10 To TAPE 1 (1)
No. 11 To TAPE 2 (4)
No. 12 To TAPE 2 (1)
No. 13 To TAPE 1 (5)
No. 14 To TAPE 2 (5)
No. 15 To TAPE 1 (3)
No. 16 To TAPE 2 (3)

W-T
No.
No.
No.
No.
No.
No.



(BOTTOM VIEW)

TERMINAL GUIDE

Q701
Q702

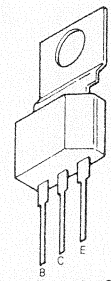
Q705, Q706
Q709 THRU Q712
Q717

Q713 THRU Q716

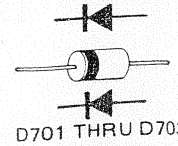
Q401 THRU Q404

W-TYPE, E-TYPE, N-TYPE, D-TYPE

No. 18, 19 To SPEAKER TERMINAL —
To No. 20
No. 20 To No. 19
To POWER TRANSFORMER (BLK)
No. 21 To No. 23
No. 22 To No. 26
No. 23 To CHASSIS GROUND
To No. 21
No. 24, 25 To POWER TRANSFORMER (WHT)
No. 26 To No. 22
No. 27 To SPEAKER SELECTOR SWITCH (BLU)
No. 28 To SPEAKER SELECTOR SWTICH (BLU/WHT)
No. 29 To INPUT SELECTOR SWITCH (ORG)
No. 30 To INPUT SELECTOR SWITCH (YEL)
No. 31 To INPUT SELECTOR SWITCH (VIO)
No. 32 To AUX GROUND
No. 33 To INPUT SELECTOR SWITCH (VIO/WHT)

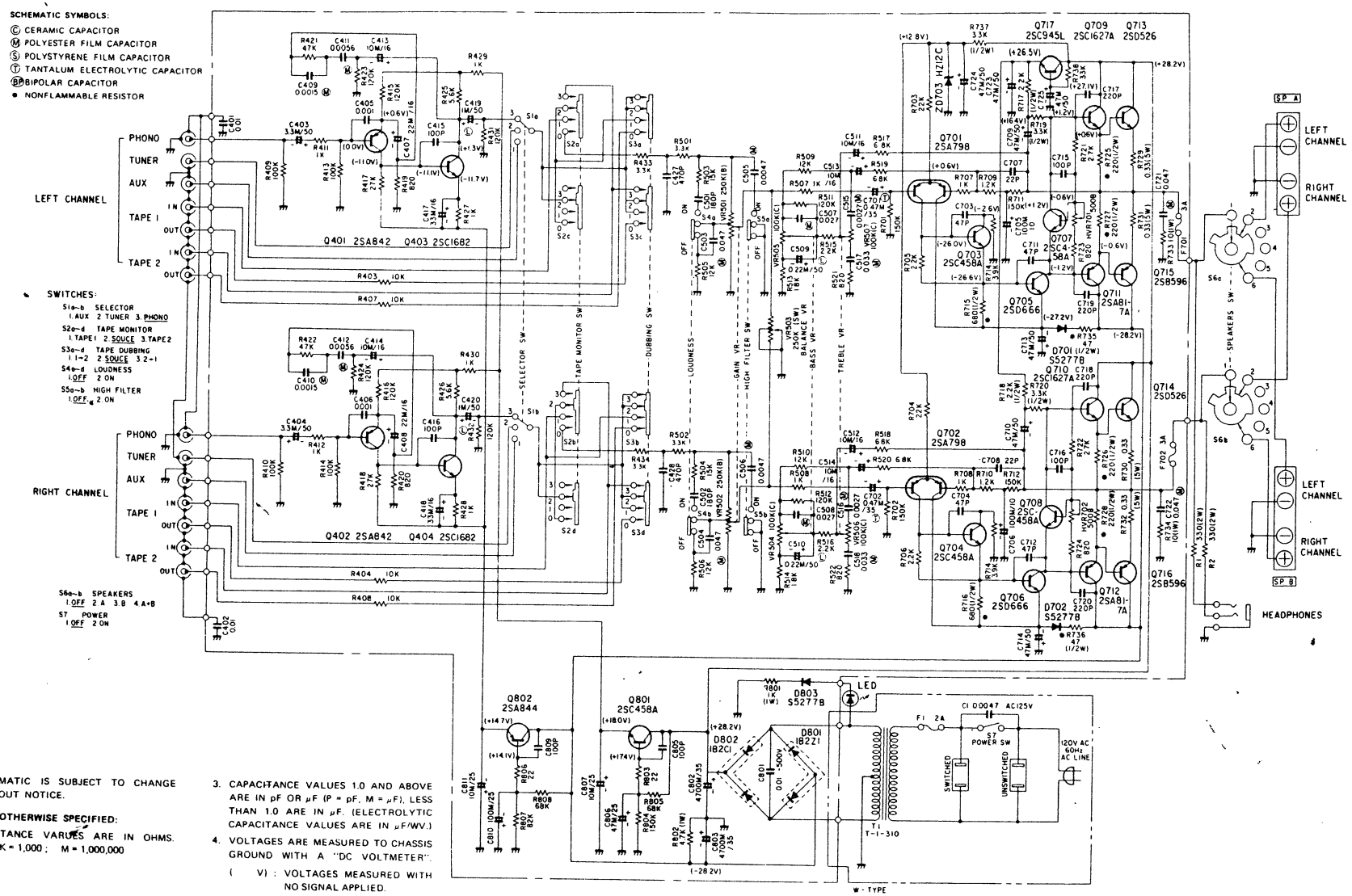


Q703, Q704
Q707, Q708
Q801, Q802



D701 THRU D703
ZD703

SCHEMATIC DIAGRAM (W-TYPE)



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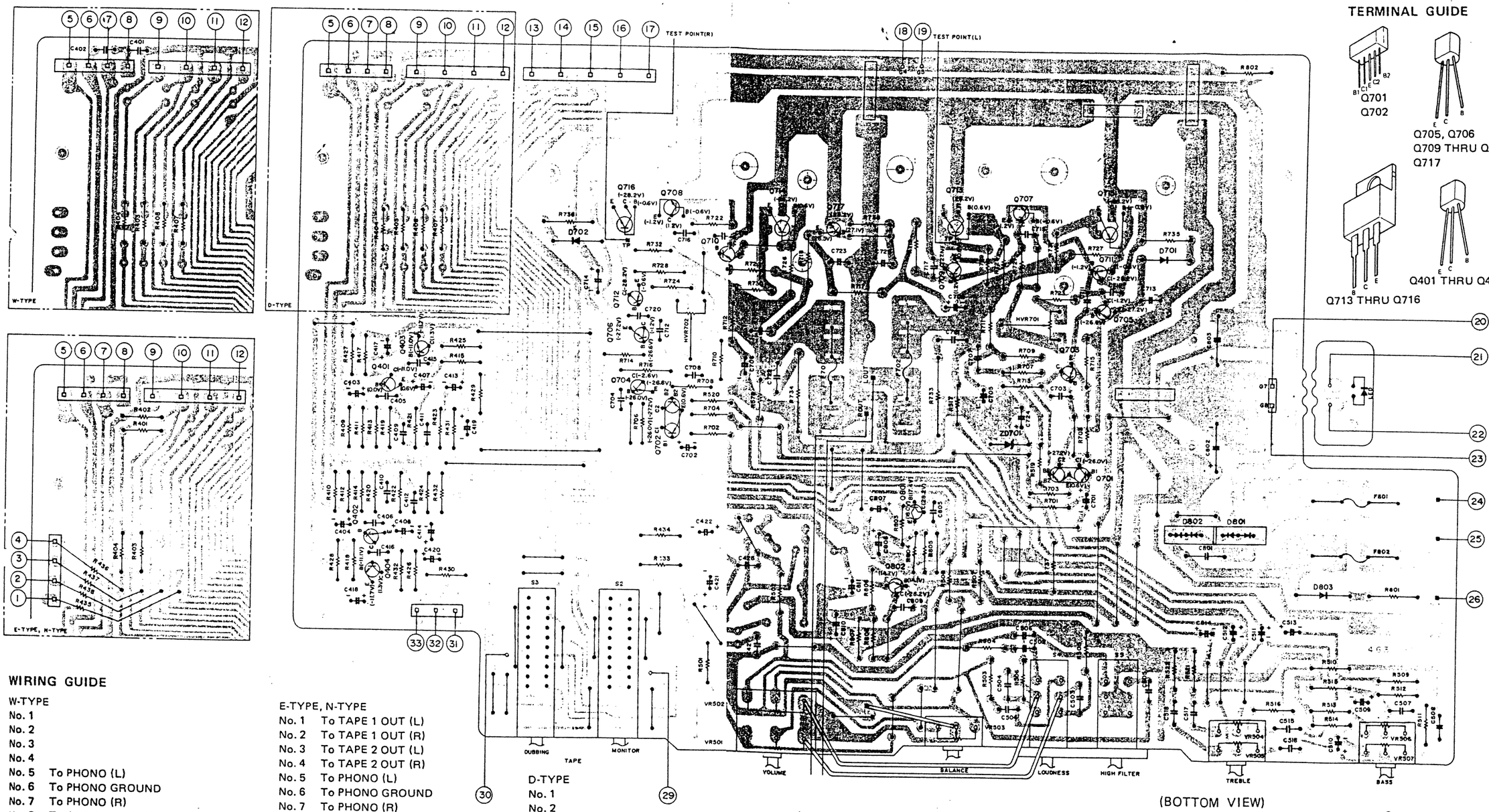
4. VOLTAGES ARE MEASURED TO CHASSIS GROUND WITH A "DC VOLTMETER".
   (V) : VOLTAGES MEASURED WITH NO SIGNAL APPLIED.

CIRCUIT BOARD



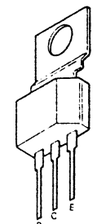
TERMINAL GUIDE

Q701
Q702

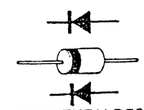
Q705, Q706
Q709 THRU Q712
Q717

Q713 THRU Q716

Q401 THRU Q404



Q703, Q704
Q707, Q708
Q801, Q802



D701 THRU D703
ZD703

WIRING GUIDE

W-TYPE

No. 1	
No. 2	
No. 3	
No. 4	
No. 5	To PHONO (L)
No. 6	To PHONO GROUND
No. 7	To PHONO (R)
No. 8	To GND TERMINAL
No. 9	To TAPE 1 OUT (R)
No. 10	To TAPE 1 OUT (L)
No. 11	To TAPE 2 OUT (R)
No. 12	To TAPE 2 OUT (L)
No. 13	To TAPE 1 IN (R)
No. 14	To TAPE 2 IN (R)
No. 15	To TAPE 1 IN (L)
No. 16	To TAPE 2 IN (L)
No. 17	To TAPE 1 GROUND

E-TYPE, N-TYPE

No. 1	To TAPE 1 OUT (L)
No. 2	To TAPE 1 OUT (R)
No. 3	To TAPE 2 OUT (L)
No. 4	To TAPE 2 OUT (R)
No. 5	To PHONO (L)
No. 6	To PHONO GROUND
No. 7	To PHONO (R)
No. 8	To GND TERMINAL
No. 9	To DIN JACK (4)
No. 10	To DIN JACK (3)
No. 11	
No. 12	
No. 13	To TAPE 1 IN (R) To DIN JACK (5)
No. 14	To TAPE 2 IN (R)
No. 15	To TAPE 1 IN (L) To DIN JACK (3)
No. 16	To TAPE 2 IN (L)
No. 17	To TAPE 1 GROUND

D-TYPE

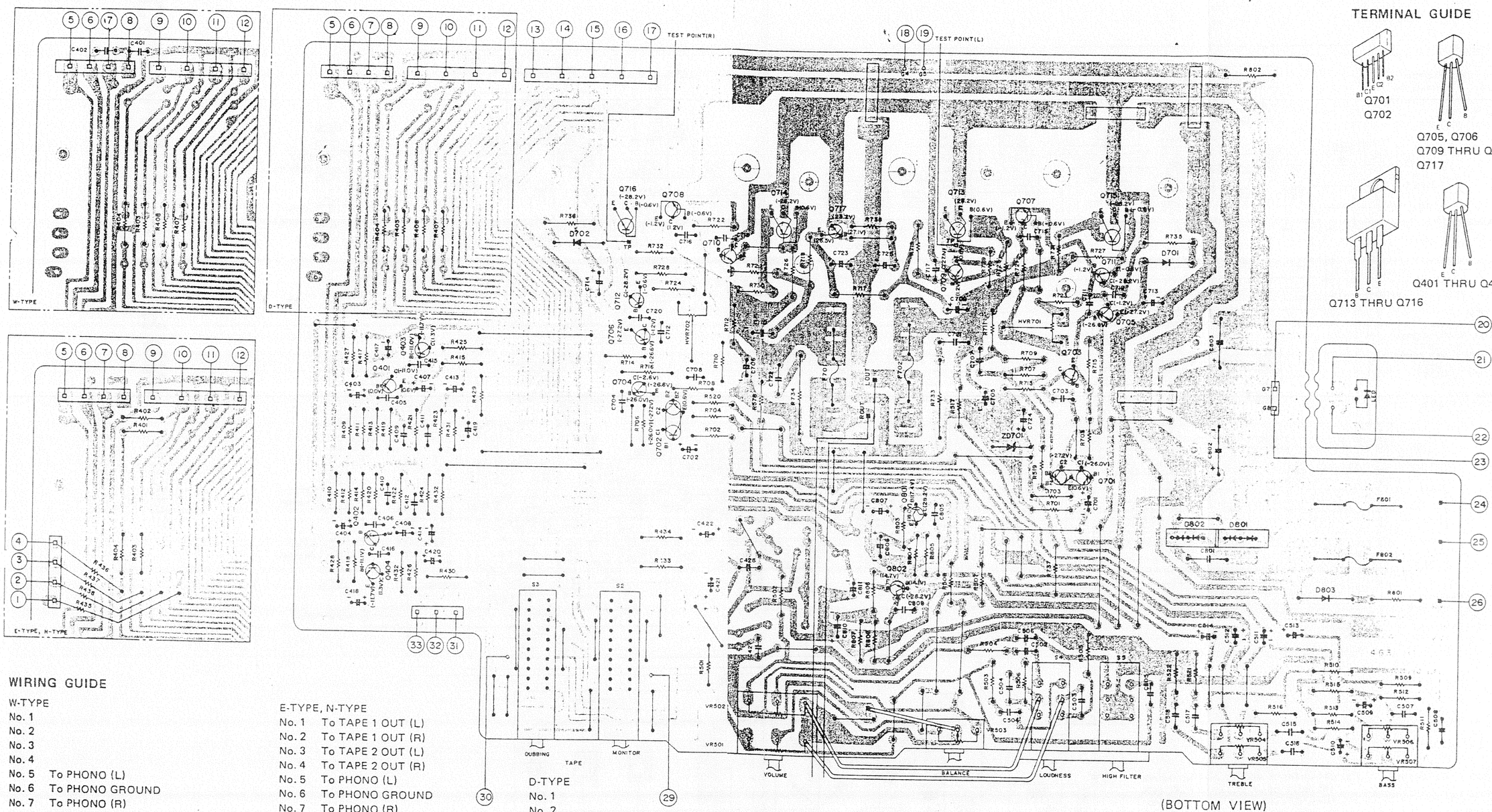
No. 1	
No. 2	
No. 3	
No. 4	
No. 5	To PHONO (3)
No. 6	To PHONO (2)
No. 7	To PHONO (1)
No. 8	To GND TERMINAL
No. 9	To TAPE 1 (4)
No. 10	To TAPE 1 (1)
No. 11	To TAPE 2 (4)
No. 12	To TAPE 2 (1)
No. 13	To TAPE 1 (5)
No. 14	To TAPE 2 (5)

W-TYPE, E-TYPE, N-TYPE, D-TYPE

No. 18, 19	To SPEAKER TERMINAL – To No. 20
No. 20	To No. 19 To POWER TRANSFORMER (BLK)
No. 21	To No. 23
No. 22	To No. 26
No. 23	To CHASSIS GROUND To No. 21
No. 24, 25	To POWER TRANSFORMER (WHT)
No. 26	To No. 22
No. 27	To SPEAKER SELECTOR SWITCH (BLU)
No. 28	To SPEAKER SELECTOR SWTICH (BLU/WHT)
No. 29	To INPUT SELECTOR SWITCH (ORG)
No. 30	To INPUT SELECTOR SWITCH (YEL)
No. 31	To INPUT SELECTOR SWITCH (VIO)
No. 32	To AUX GROUND
No. 33	To INPUT SELECTOR SWITCH (VIO/WHT)

(BOTTOM VIEW)

CIRCUIT BOARD



TERMINAL GUIDE

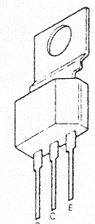
Q701
Q702

Q705, Q706
Q709 THRU Q712
Q717

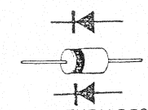
Q713 THRU Q716

Q401 THRU Q404

(BOTTOM VIEW)



Q703, Q704
Q707, Q708
Q801, Q802



D701 THRU D703
ZD703

WIRING GUIDE

W-TYPE

No. 1	
No. 2	
No. 3	
No. 4	
No. 5	To PHONO (L)
No. 6	To PHONO GROUND
No. 7	To PHONO (R)
No. 8	To GND TERMINAL
No. 9	To TAPE 1 OUT (R)
No. 10	To TAPE 1 OUT (L)
No. 11	To TAPE 2 OUT (R)
No. 12	To TAPE 2 OUT (L)
No. 13	To TAPE 1 IN (R)
No. 14	To TAPE 2 IN (R)
No. 15	To TAPE 1 IN (L)
No. 16	To TAPE 2 IN (L)
No. 17	To TAPE 1 GROUND

E-TYPE, N-TYPE

No. 1	To TAPE 1 OUT (L)
No. 2	To TAPE 1 OUT (R)
No. 3	To TAPE 2 OUT (L)
No. 4	To TAPE 2 OUT (R)
No. 5	To PHONO (L)
No. 6	To PHONO GROUND
No. 7	To PHONO (R)
No. 8	To GND TERMINAL
No. 9	To DIN JACK (4)
No. 10	To DIN JACK (3)
No. 11	
No. 12	
No. 13	To TAPE 1 IN (R) To DIN JACK (5)
No. 14	To TAPE 2 IN (R)
No. 15	To TAPE 1 IN (L) To DIN JACK (3)
No. 16	To TAPE 2 IN (L)
No. 17	To TAPE 1 GROUND

D-TYPE

No. 1	
No. 2	
No. 3	
No. 4	
No. 5	To PHONO (3)
No. 6	To PHONO (2)
No. 7	To PHONO (1)
No. 8	To GND TERMINAL
No. 9	To TAPE 1 (4)
No. 10	To TAPE 1 (1)
No. 11	To TAPE 2 (4)
No. 12	To TAPE 2 (1)
No. 13	To TAPE 1 (5)
No. 14	To TAPE 2 (5)

W-TYPE, E-TYPE, N-TYPE, D-TYPE

No. 18, 19	To SPEAKER TERMINAL — To No. 20
No. 20	To No. 19 To POWER TRANSFORMER (BLK)
No. 21	To No. 23
No. 22	To No. 26
No. 23	To CHASSIS GROUND To No. 21
No. 24, 25	To POWER TRANSFORMER (WHT)
No. 26	To No. 22
No. 27	To SPEAKER SELECTOR SWITCH (BLU)
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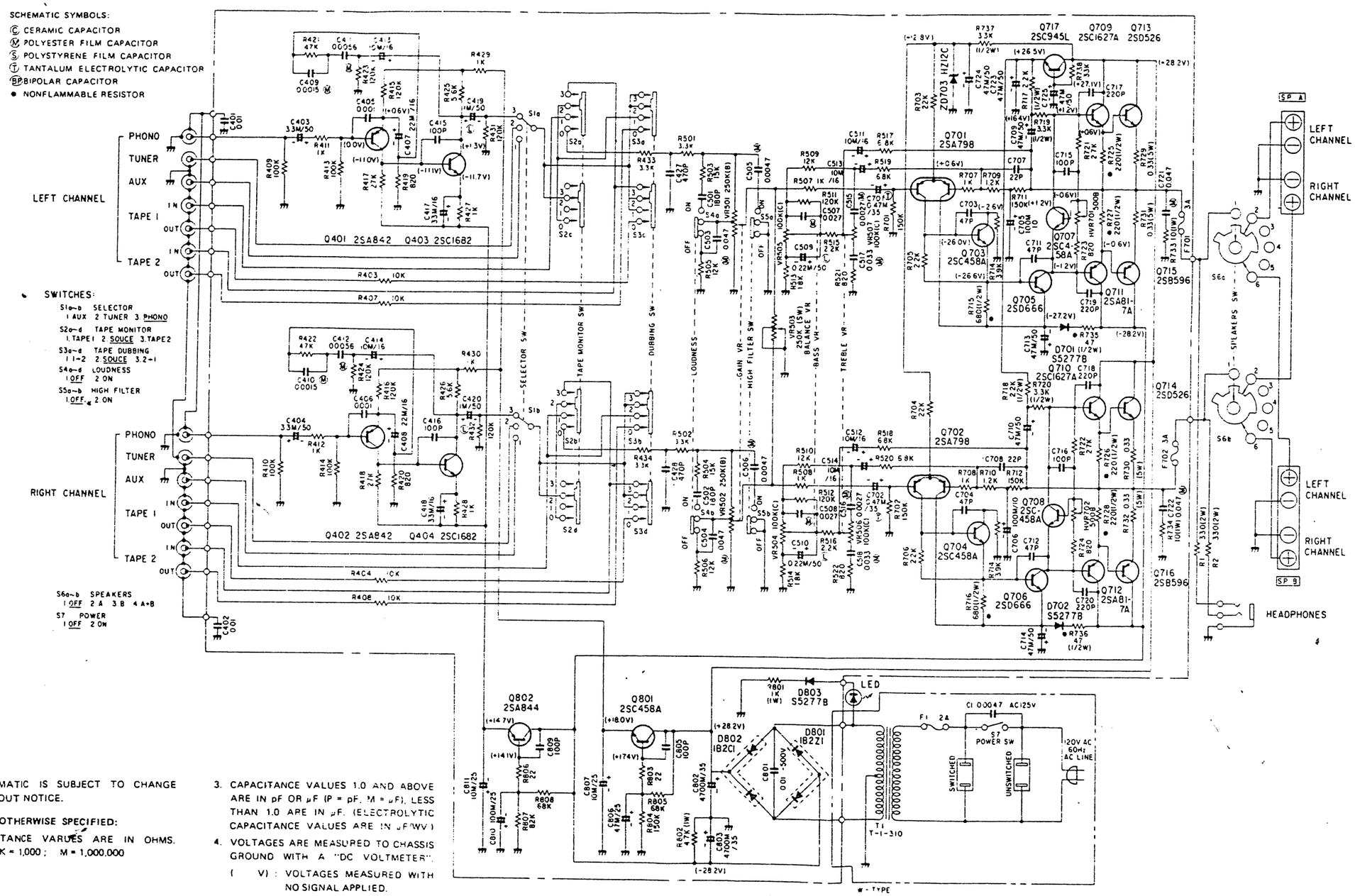
No. 30	To INPUT SELECTOR SWITCH (YEL)
No. 31	To INPUT SELECTOR SWITCH (VIO)
No. 32	To AUX GROUND
No. 33	To INPUT SELECTOR SWITCH (VIO/WHT)

SCHEMATIC DIAGRAM

(W-TYPE)



NOTES:

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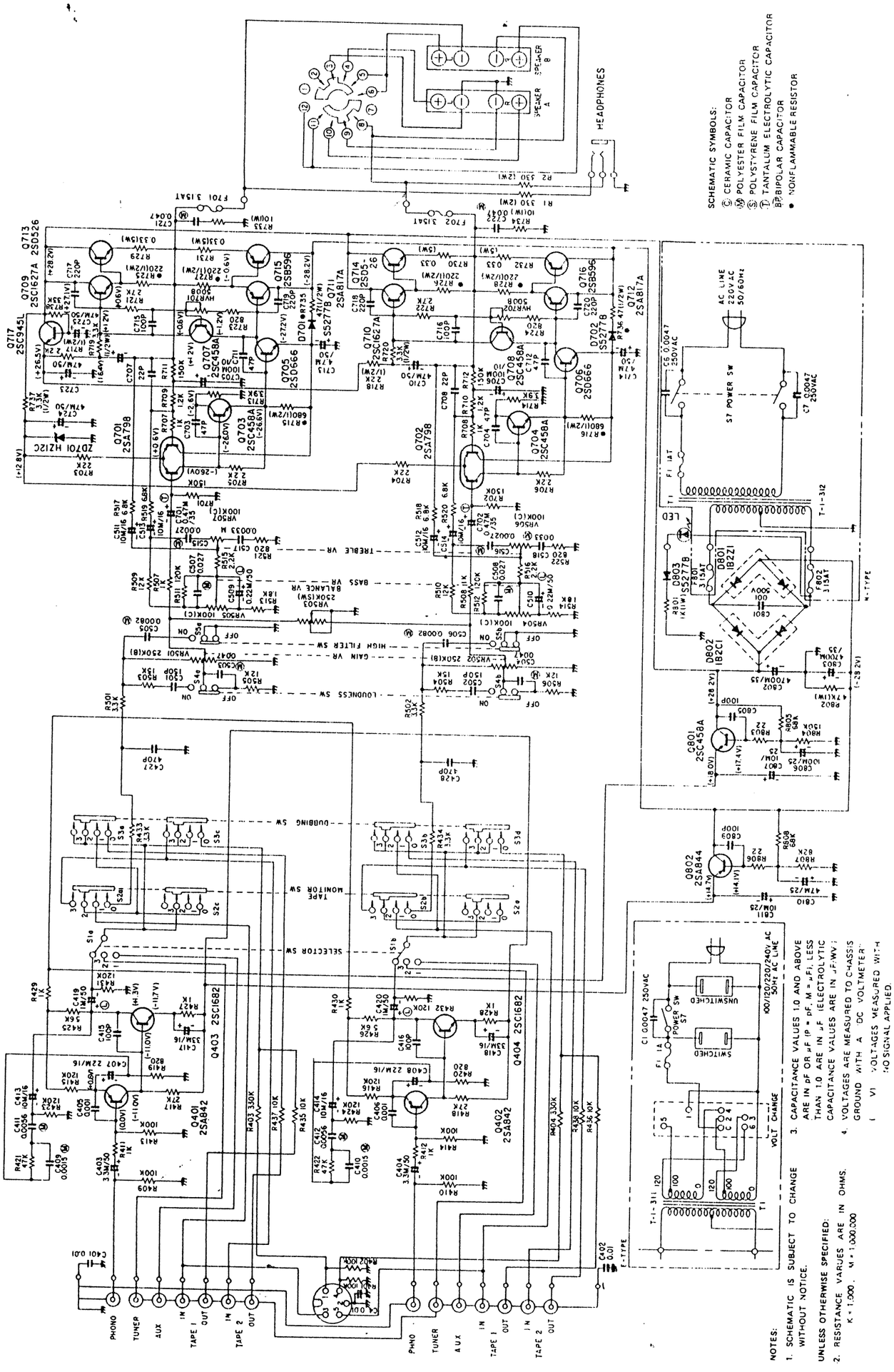
4. VOLTAGES ARE MEASURED TO CHASSIS GROUND WITH A "DC VOLTMETER".
   (V) : VOLTAGES MEASURED WITH NO SIGNAL APPLIED.

* - TYPE

(E-TYPE, N-TYPE)


SCHEMATIC SYMBOLS:
C CERAMIC CAPACITOR
M POLYESTER FILM CAPACITOR
S POLYSTYRENE FILM CAPACITOR
T TANTALUM ELECTROLYTIC CAPACITOR
BP BIPOLAR CAPACITOR
• NONFLAMMABLE RESISTOR
SPEAKER B
SPEAKER A
HEADPHONES
R2 330 (2W)
R1 330 (2W)
F701 315AT
F702 315AT
AC LINE 220VAC 50/60Hz
S7 POWER SW
T-1-312
T-1-311
LED
D801 1B22I
D802 1B2CI
D803 1SS277B
F801 1.5AT
F802 315AT
Q801 2SC458A
Q802 2SA844
Q701 2SA798
Q702 2SA798
Q703 2SC458A
Q704 2SC458A
Q705 2SD666
Q706 2SD666
Q707 2SC458A
Q708 2SC458A
Q709 2SC1627A 2SD526
Q710 2SC1627A
Q711 2SA817A
Q712 2SA817A
Q713 2SC945L
Q714 2SD5-26
Q715 2SB596
Q716 2SB596
Q717 2SC945L
Q401 2SA842
Q402 2SA842
Q403 2SC1682
Q404 2SC1682
D701 HZ12C
D702 1SS277B
TREBLE VR
BASS VR
BALANCE VR
HIGH FILTER SW
GAIN VR
LOUDNESS SW
DUBBING SW
TAPE MONITOR SW
SELECTOR SW
PHONO
TUNER
AUX
TAPE 1 IN
TAPE 1 OUT
TAPE 2 IN
TAPE 2 OUT
VOLT CHANGE
POWER SW S7
UNSWITCHED
SWITCHED
100/120/220/240V AC 50Hz AC LINE
T1
NOTES:
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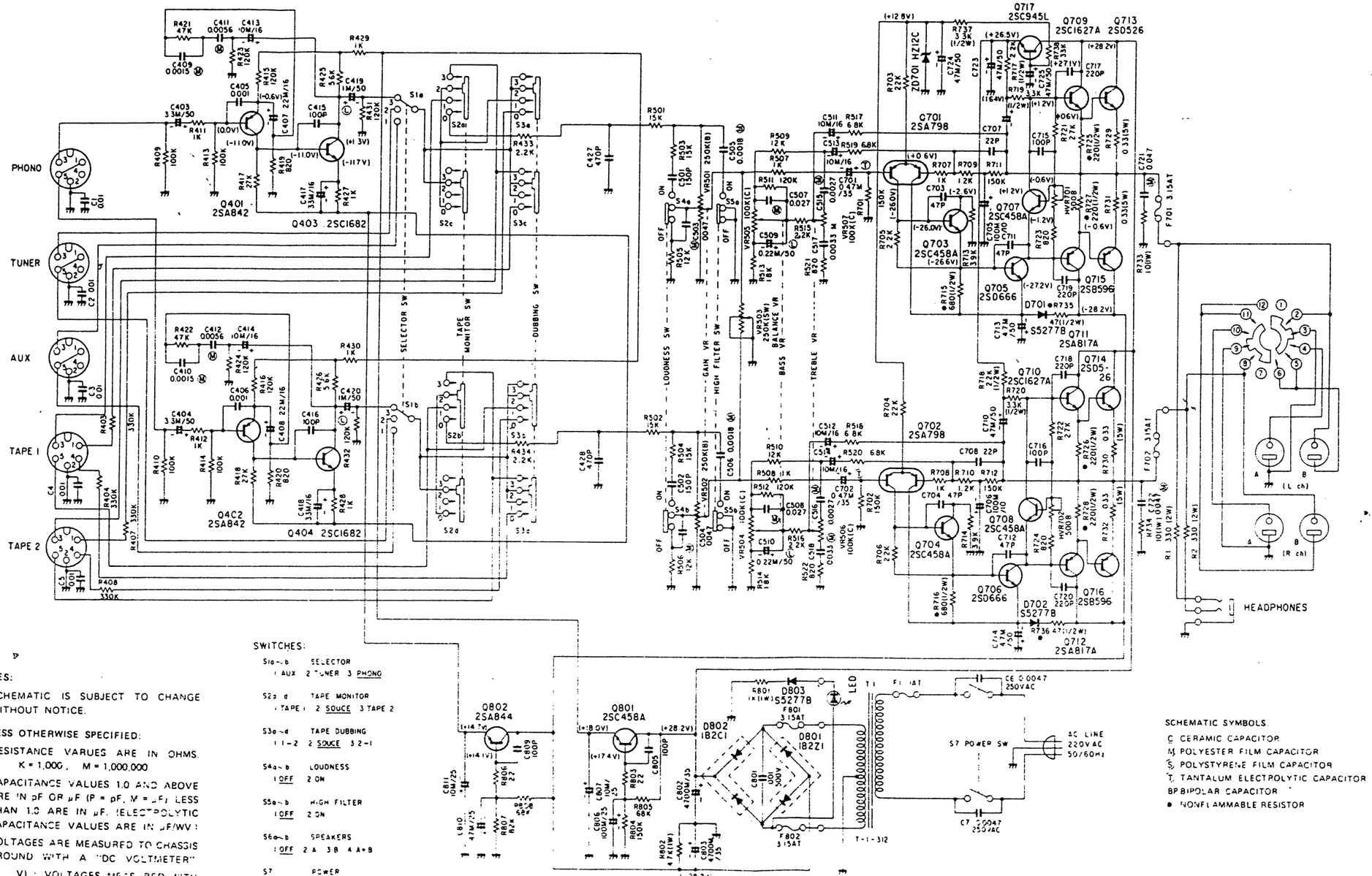

SWITCHES:

S1a~b SELECTOR
1 AUX 2 TUNER 3 PHONO

S2a~d TAPE MONITOR
1 TAPE 1 2 SOUCE 3 TAPE 2

S3a~d TAPE DUBBING
1 1-2 2 SOUCE 3 2-1

S4a~b LOUDNESS
1 OFF 2 ON

S5a~b HIGH FILTER
1 OFF 2 ON

S6a~b SPEAKERS
1 OFF 2 A 3 B 4 A+B

S7 POWER
1 OFF 2 ON

NOTES:

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SCHEMATIC SYMBOLS.

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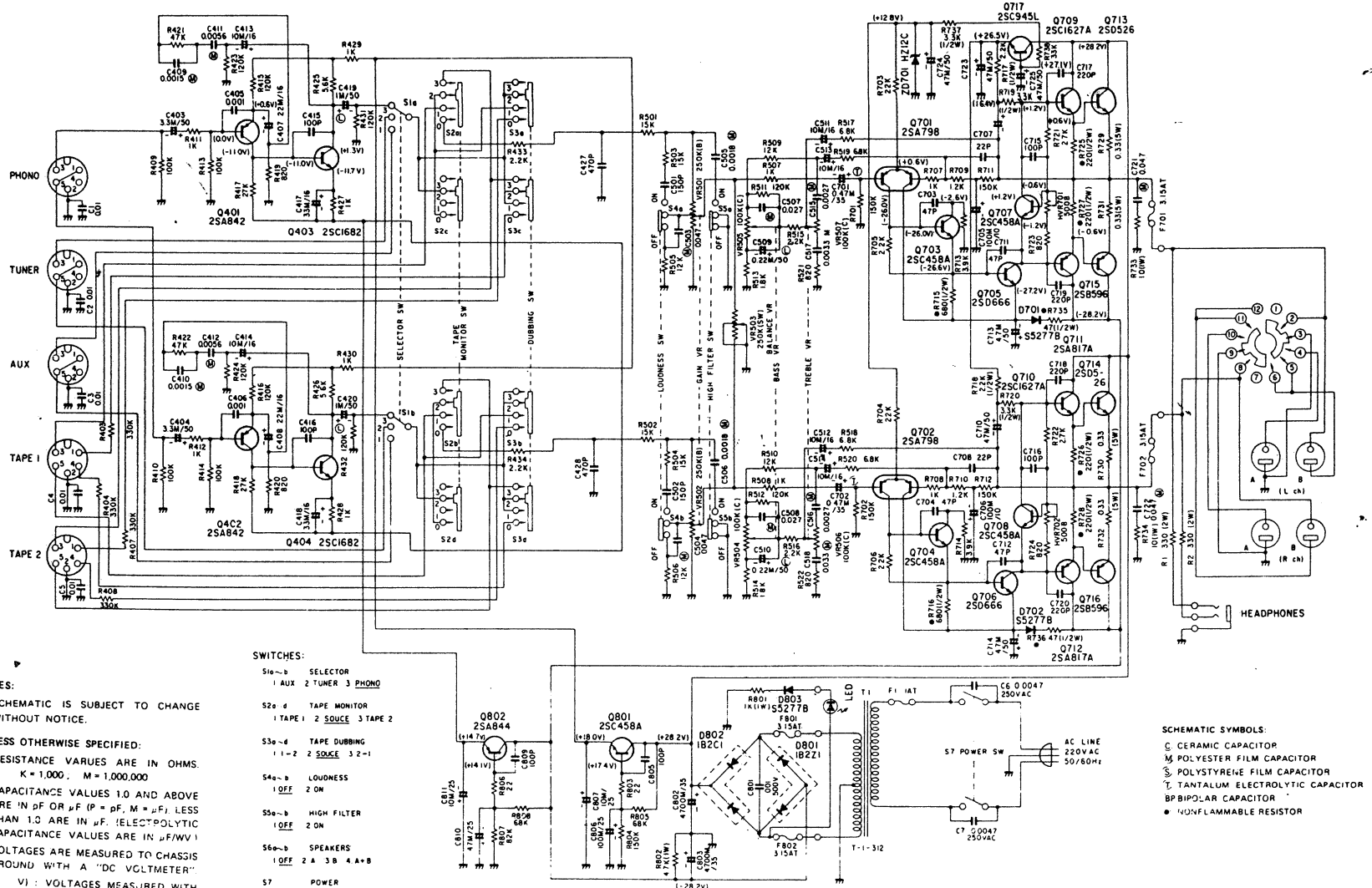
M POLYESTER FILM CAPACITOR
S POLYSTYRENE FILM CAPACITOR
T TANTALUM ELECTROLYTIC CAPACITOR
BP BIPOLAR CAPACITOR
● NONFLAMMABLE RESISTOR



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   (V) : VOLTAGES MEASURED WITH NO SIGNAL APPLIED

SWITCHES:

S1a~b SELECTOR
1 AUX 2 TUNER 3 PHONO

S2a~d TAPE MONITOR
1 TAPE 1 2 SOUCE 3 TAPE 2

S3a~d TAPE DUBBING
1 1-2 2 SOUCE 3 2-1

S4a~b LOUDNESS
1 OFF 2 ON

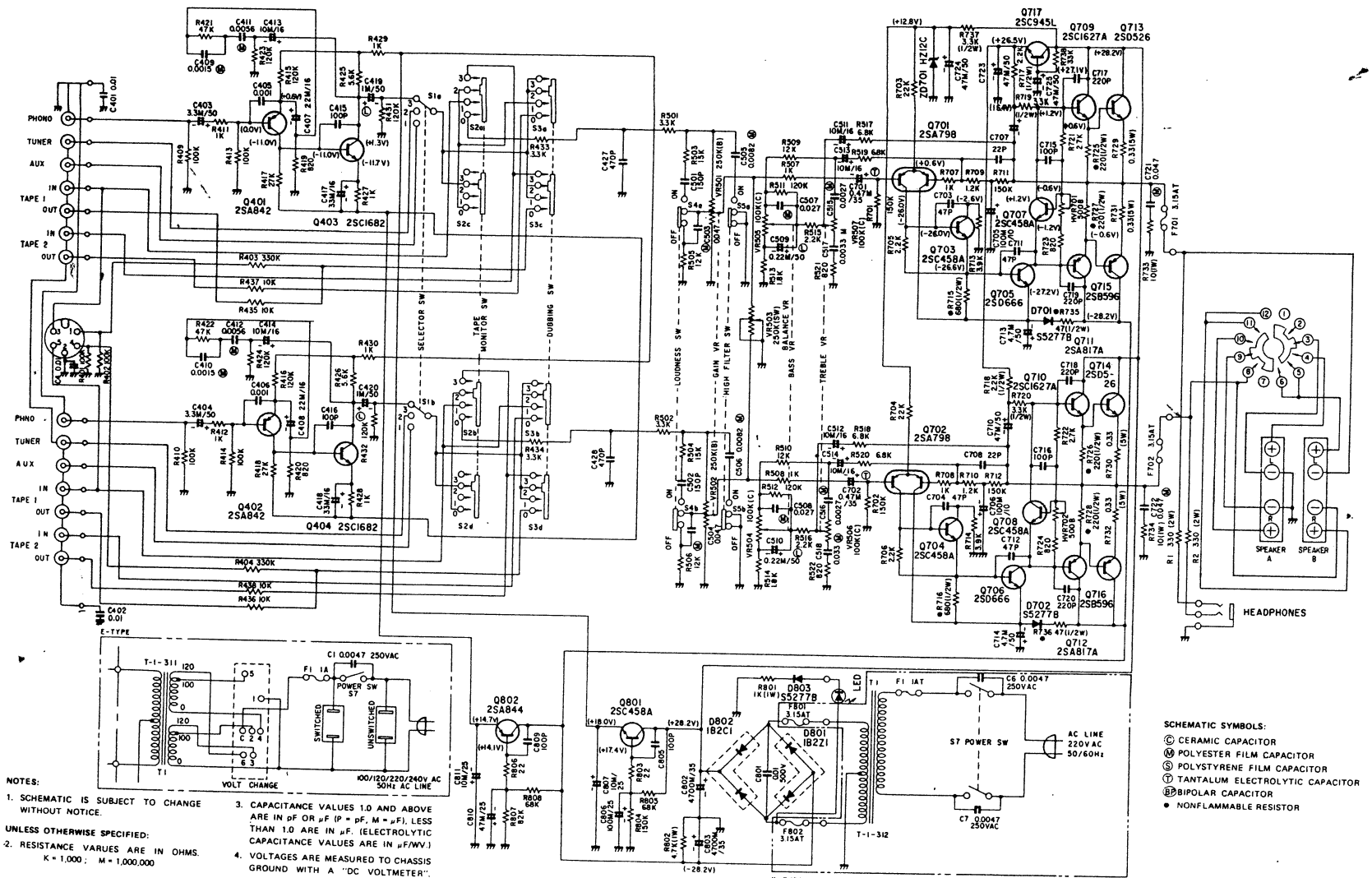
S5a~b HIGH FILTER
1 OFF 2 ON

S6a~b SPEAKERS
1 OFF 2 A 3 B 4 A+B

S7 POWER
1 OFF 2 ON

SCHEMATIC SYMBOLS:

C CERAMIC CAPACITOR
M POLYESTER FILM CAPACITOR
S POLYSTYRENE FILM CAPACITOR
T TANTALUM ELECTROLYTIC CAPACITOR
BP BIPOLAR CAPACITOR
● NONFLAMMABLE RESISTOR



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SCHEMATIC SYMBOLS:

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- Ⓜ POLYESTER FILM CAPACITOR
- Ⓢ POLYSTYRENE FILM CAPACITOR
- Ⓣ TANTALUM ELECTROLYTIC CAPACITOR
- BP BIPOLAR CAPACITOR
- ● NONFLAMMABLE RESISTOR